

This listing of claims will replace all prior versions, and listings, of claims in the application.

Listing of Claims:

1. (currently amended) Apparatus for the printing and binding a perfect bound
5 book, the latter comprising a book block having of a plurality of text pages with one edge of said
book block constituting a spine, said book having a paper cover adhesively secured to said spine,
said apparatus comprising a text page printer ~~for printing said text pages constituting said book~~
~~block of a selected book to be printed~~, a cover printer ~~for printing said cover corresponding to~~
~~said book being printed~~, a tray for receiving said text pages printed by said text page printer and
10 accumulating said text pages so as to form said book block, a cover transfer conveyor for
receiving said cover printed by said cover printer and for conveying said cover to a binding
station, a carriage movable along a workpath from a first station at which said carriage is in
position to receive said ~~book block from said tray~~ text pages constituting said book block to an
adhesive application station at which an adhesive is applied to the spine of said book block, and
15 to said binding station, the later having a clamp for clamping said cover to said book block
proximate said spine so as to effect the adhesive binding of said cover to said book block.

2. (currently amended) Apparatus as set forth in Claim 1 further comprising a
second text page printer ~~for printing the text pages of a second book to be printed and bound~~,
said second text page printer being located along said workpath at a location separate from said
20 first text page printer, ~~said apparatus further having a second tray for receiving said text pages~~
~~printed by said second printer and for accumulating said text pages to form a second book block~~

for ~~said second book~~, said cover printer printing a cover corresponding to said second book and said cover conveyor conveying said second cover to said binding station after binding of said first book is completed at said binding station, said carriage being movable to a position along said workpath for receiving said text pages from said second printer for forming a book block for
5 a second book block from said second tray and thence being movable along said work path to said adhesive application station for having said adhesive applied to said spine of said second book block and thence to said binding station for being bound to said second cover.

3. (currently amended) Apparatus for printing books and for perfect binding said books, each said book to be printed and bound having a book block comprising a plurality of text
10 pages and a cover corresponding to said book being printed, one edge of said book block constituting a spine, said apparatus ~~being characterized by~~ comprising:

a computer control system ~~for controlling operation of said apparatus, said computer control system~~ receiving information relating to a first book to be printed and bound, said information including the size of the book and the number of pages in said book block,
15 information corresponding to the text pages to be printed and to the cover to be printed, and information relating to excess margins of the bound book that must be trimmed to form a book of predetermined finished size;

a text page printer ~~for printing said text pages of the book being printed and for accumulating~~ which accumulates said text pages so as to constitute said book block for said book
20 being printed;

a cover printer ~~for printing said cover corresponding to said book being printed;~~

said computer control system initiating printing of said text pages by said text page printer and initiating printing of said cover by said cover printer;

~~a cover transfer conveyor for receiving said cover printed by said cover printer and for conveying said cover to a binding station;~~

5 a carriage movable along a work path, said carriage receiving said book block, said carriage establishing a reference position for said book block known to said computer control system;

~~said carriage being movable along a work path,~~ said work path having an adhesive application station, a binding station, and a trimming station located therealong;

10 a cover transfer conveyor which conveys said cover from said cover printer to said binding station;

 upon the completion of the printing of said book block, said computer control system initiating transfer of said book block ~~into~~ to said carriage and initiating movement said carriage along said work path to said adhesive application station for the application of adhesive so as to
15 be disposed between the spine of said book block and a center portion of its respective cover upon binding of said book, said computer control system effecting the positioning said book block at said binding station with respect to said cover positioned at said binding station such that said book block is substantially centered with respect to said center portion of said cover and such that said book block is substantially centered heightwise of said cover;

20 said binding station having a clamp engageable with said cover proximate said spine for clamping said cover around said spine of said book;

 said computer control system effecting clamping of said cover to said book block so that said adhesive adheres said center portion of said cover to said spine of said book block; and

after binding of said cover to said book block so as to form a perfect bound book, said computer control system further initiating movement of said carriage along said workpath for conveying said bound book to said trimming station, the latter effecting operation of a selectively actuatable trimming blade at said trimming station for trimming said excess margins of said bound book along one or more edges thereof so as to form a perfect bound book of a predetermined finished size.

4. (currently amended) Apparatus for printing a plurality of books one after the other, for perfect binding each of said books, and for trimming each of said books to a predetermined finished size, each said book to be printed and bound having a book block comprising a plurality of text pages and a cover corresponding to said book being printed, one edge of book block constituting said spine of said book block, said apparatus ~~being characterized by~~ comprising:

a computer control system, ~~said computer control system~~ receiving information relating to each of the books to be printed, bound, and trimmed, said information relating to a first book including the finished size of ~~the~~ said first book, the number of pages in said first book, information corresponding to the text pages to be printed and to the cover to be printed for said first book, and information regarding excess margins that must be trimmed from said first book as initially printed and bound so as to be of a predetermined finished size, said computer control system ~~for the~~ receiving information relating to a second book including the finished size of ~~the~~ said second book, the number of pages in said second book, information corresponding to the text pages to be printed and to the second cover to be printed for said second book, and

information regarding excess margins that must be trimmed from said second book as initially printed and bound so as to be of a predetermined finished size;

a first text page printer ~~for printing~~ which prints said text pages for said first book;

a cover printer;

5 a second text page printer ~~for printing~~ which prints said text pages for said second book;

a first tray receiving said text pages printed by said first text page printer, said text pages being accumulated on said first tray for constituting ~~said~~ a first book block;

a second tray receiving said text pages printed by said second text page printer, said text pages being accumulated on said second tray for constituting ~~said~~ a second book block;

10 ~~a cover conveyor for receiving said covers printed by said cover printer and for conveying said covers to a binding station;~~

a carriage movable along a work path, the latter having a first station at which said carriage receives said first book block, an adhesive application station at which an adhesive is applied so as to be disposed between said spine of a book block carried by said carriage and said
15 cover, a binding station at which said book block carried by said carriage is bound to [[a]] its respective cover positioned at said binding station, the latter having a clamp for ~~clamping~~ clamping a cover to a book block proximate the spine of the book block, a trimming station at which excess margins of the book bound at said binding station are trimmed from along one or more edges of said book, and a second station at which said carriage receives said second book
20 block;

a cover conveyor which receives said cover printed by said cover printer and which conveys said cover to said binding station;

said computer control system initiating printing of said text pages for said first book block by said first text page printer and initiating printing of said first cover by said cover printer;

5 said computer control system initiating printing of said text pages for said second book block by said second text page printer:

 upon the completion of the printing of said text pages for said first book block by said first text page printer, said computer control system initiating the transfer of said first book block from said first tray ~~into~~ to said carriage;

10 said computer control system effecting the positioning of said first book block to a known position within said carriage;

~~upon the completion of the printing of said first cover by said cover printer,~~ said computer control system effecting conveying of said first cover from said cover printer to said binding station with a center portion of said first cover positioned at said binding station so as to be in register with the spine of said first book block when the latter is positioned at said binding station;

15 station;

 said computer control system effecting the printing of said second cover for said second book after said first cover has been printed;

 said computer control system further initiating movement of said carriage along said work path ~~past~~ to said adhesive application station where a suitable adhesive is applied so as to

20 be between said spine of said first book block and said first cover upon binding said first book;

 said computer control system effecting stopping said carriage at said binding station such that said spine of said first book block is substantially centered with respect to said first cover

and such that said first cover is clamped to first book block proximate the spine thereby to form a first bound book;

said computer control system further effecting the transport of said bound first book to said trimming station ~~and effecting the release of said first bound first book to said trimming~~
5 ~~station~~, said first bound first book having said excess margins known to said computer control system, the latter effecting operation of a selectively actuatable trimming blade at said trimming station for trimming said excess margins along one or more edges of said first bound book thereby to form said first book of said predetermined finished size;

upon the transport ~~release~~ of said first bound book to said trimming station, said
10 computer control system effecting movement of said carriage to said second position;

said computer control system initiating the transfer of said second book block from said second tray to said carriage;

said computer control system effecting the positioning of said second book block in a known position with respect to said carriage;

15 said computer control system effecting the transfer of said second cover from said cover printer to said binding station;

said computer control system effecting movement of said carriage along said work path from said second position to said adhesive application station where a suitable adhesive is applied so as to be between said spine of said second book block and said second cover upon
20 binding of said second book;

said computer control system effecting stopping said carriage at said binding station such that said spine of said second book block is substantially centered with respect to said second

cover and effecting clamping of said second cover to said second book block proximate the spine thereof thereby to form a second bound book; and

said computer control system further effecting the transport of said bound second book to said trimming station ~~and effecting the release of said second bound book to said trimming~~
5 ~~station~~, said second bound book having said excess margins known to said computer control system, the latter effecting operation of said trimming blade for trimming said excess margins along one or more edges of said second bound book thereby to form a second book of said finished predetermined size.

5. (currently amended) ~~[[An]]~~ A book printing and binding apparatus, said book
10 having a plurality of text pages constituting a book block and a paper cover, said apparatus comprising:

a book printing station that prints said text pages ~~of a book and ejects text pages~~;

a carriage which receives ~~operatively connected with the book printing station to receive~~
the text pages ~~ejected from the book printing station~~ so as to form said book block, said carriage
15 holding said book block ~~with one edge of said book block constituting a spine, said book block~~
~~being positioned within the carriage~~ in a known position;

an adhesive station operatively associated with the carriage to apply an adhesive to one
edge ~~the spine~~ of the book block, said one edge of said book block constituting a spine;

a cover printing station that prints said cover for said book being printed ;

20 a binding station receiving ~~operatively connected with said cover print station to receive~~
said cover;

said binding station cooperating with said book block carried by said carriage such that

~~with said carriage stopped at said binding station such that being operatively connected with said carriage such that as said carriage conveys said book block with said adhesive applied to said spine into said binding station,~~ said book block is stopped so as to be substantially centered with respect to said cover; and

5 said binding station further including a clamp engageable with said cover and with said book block proximate said spine for clamping said cover to said book block such that said adhesive binds said cover to said book block along said spine thereby to form a bound book.

6. (currently amended) [[An]] A book printing and binding apparatus as set forth in Claim 5 further comprising a milling station operatively associated with the carriage so as to
10 roughen the spine of said book block prior to the adhesive station applying the adhesive to said spine.

7. (currently amended) [[An]] A book printing and binding apparatus as set forth in Claim 5 further comprising:

 a conveyor extending from said book printing station to said adhesive application station
15 and to said binding station, said carriage being operatively connected with the conveyor to be conveyed by the conveyor from said book printing station to said adhesive station and to said binding station.

8. (currently amended) [[An]] A book printing and binding apparatus as set forth in Claim 5 wherein said clamp at said binding station is movable between first and second positions
20 wherein the first position the clamp is clear of ~~displaced from the book block from the said~~ cover, and wherein [[in]] the second position the clamp is in clamping engagement with said

cover proximate said spine so as to forcibly clamp said cover to said book block.

9. (currently amended) [[An]] A book printing and binding apparatus as set forth in Claim 5 wherein said cover printing station includes a color cover printer that prints a color cover for the book and ejects said cover, said cover printing station further including a cover transfer mechanism extending between said cover printer and the binding station, the cover transfer mechanism being operable to receive the printed cover ejected from the cover printer and to transfer the cover to the binding station.

10. (currently amended) [[An]] A book printing and binding apparatus as set forth in Claim 9 wherein said cover transfer mechanism positions said cover at said binding station with a central portion of said cover in register with the spine of a book block carried by said carriage to be bound to said cover.

11. (currently amended) [[An]] A book printing and binding apparatus as set forth in Claim 5 further ~~having~~ comprising a trimming station having a nest that receives and holds said bound book, said book being delivered to said nest by said carriage such that the bound book is accurately positioned within said nest in a known position, said trimming station having a ~~shearing mechanism~~ shear blade operable to shear said bound book, the nest and the ~~shearing mechanism~~ said shear blade being movable relative to one another enabling the ~~shearing mechanism~~ said shear blade to shear predetermined amounts of the book block and cover along one or more edges thereof so as to form a finished book of predetermined dimensions.

12. (currently amended) [[An]] A book printing and binding apparatus as set forth in Claim 11 wherein said nest is rotatable relative to said shear blade ~~shearing mechanism~~ to

present more than one edge of both the book block and cover to said shear blade ~~the shearing mechanism~~ for shearing.

13. (currently amended) ~~[[An]]~~ A book printing and binding apparatus as set forth in Claim 5 wherein said carriage has a bottom opening such that a book block carried vertically by said carriage has its spine exposed from below such that as the carriage carries the book block spine over the adhesive station adhesive may be applied to said spine.

14. (currently amended) ~~[[An]]~~ A book printing and binding apparatus as set forth in Claim 13 wherein with said spine exposed through said bottom opening in said carriage, with the book block positioned at said binding station, said spine is in position to be adhesively bound to said center portion of said cover positioned at said binding station.

15. (currently amended) ~~[[An]]~~ A book printing and binding apparatus as set forth in Claim 5, further comprising:

a second book printing station that prints text pages of a second book ~~and ejects said text pages of said second book;~~

15 said carriage being operatively associated with to said second book printing station to receive the text pages ~~ejected from said second book printing station~~ so as to form a second book block for a second book, said carriage holding said second book block ~~for said second book~~ with one edge of this last-said book block constituting its spine;

20 said carriage conveying said second book block ~~for said second book~~ to said adhesive application station for having adhesive applied to its spine, and thence to said binding station;

said cover printing station printing a second cover for said second book ~~and delivering~~

~~this last said cover to said binding station;~~

said binding station receiving said second cover for said second book;

said carriage positioning said second book block ~~for said second book~~ at said binding station with its spine in position to be bound to said second cover;

5 said binding station clamp being operable to clamp said second cover to said second book block thereby to form said second book.

16. (currently amended) [[An]] A book printing and binding apparatus as set forth in Claim 15 wherein said second book printing station is separate from the first book printing station.

10 17. (currently amended) [[An]] A book printing and binding apparatus as set forth in Claim 16 wherein said the first book printing station and the second book printing station are positioned on opposite ends of said workpath with said ~~sides of the~~ adhesive station and the said binding station therebetween.

15 18. (currently amended) [[An]] A book printing and binding apparatus as set forth in Claim 5 further comprising a first transfer mechanism positioned between the first book printing station and the carriage to receive said text pages printed by said first printing station and to form said first book block for said first book, said transfer mechanism being operable to transfer said first ~~book block~~ to said carriage.

20 19. (currently amended) [[An]] A book printing and binding apparatus as set forth in Claim 18 wherein said first transfer mechanism has a tray that receives said text pages ~~ejected~~ from ~~the~~ said first book printing station and arranges said text pages so as to form said first book

block ~~for said first book~~.

20. (currently amended) [[An]] A book printing and binding apparatus as set forth in Claim 19 wherein with said carriage in position to receive said first book block, said tray being movable from a receiving position in which it receives said pages ~~ejected~~ from said first printing station and a delivery position in which said tray delivers said first book block to said carriage.

21. (currently amended) [[An]] A book printing and binding apparatus as set forth in Claim 20 further having a vibrating mechanism mounted on said tray for vibrating the tray and said text pages received thereon so as to arrange said pages into ~~said~~ a book block.

22. (currently amended) [[An]] A book printing and binding apparatus as set forth in Claim 20 further comprising a clamp mechanism on the tray movable between open and a closed position where in the closed position the clamp holds the book block on the tray and where in the open position the clamp releases the book block to be deposited in the carriage.

23. (currently amended) [[An]] A book printing and binding apparatus as set forth in Claim 5, further comprising a jogging station operatively associated with the carriage and with ~~the~~ a book block held in the carriage, the jogging station having a ~~vibrating mechanism~~ vibrator which vibrates ~~to vibrate~~ the book block and thereby aligns the pages of the book block ~~held in the carriage~~.

24. (currently amended) [[An]] A book printing and binding apparatus as set forth in Claim 23 wherein ~~the vibrating mechanism~~ said vibrator is supported in an angled orientation such that the ~~vibrating mechanism~~ vibrator exerts both horizontal and vertical vibrating force components on the book block held ~~in the carriage~~ so as to aid in forming said book block.

25. (currently amended) Apparatus for the on demand printing and binding a perfect bound book, the latter comprising a book block having of a plurality of text pages with one edge of said book block constituting a spine, said book having a paper cover adhesively secured to said spine, said apparatus ~~being characterized by~~ comprising:

5 a first text page printer for printing said text pages constituting said book block of a book to be printed on demand, a cover printer for printing a cover corresponding to said book being printed, means for receiving said text pages printed by said first text page printer and for accumulating said text pages so as to form said book block, a cover transfer conveyor for receiving said cover printed by said cover printer and for conveying said cover to a binding
10 station, a carriage movable along a workpath from a first station at which said carriage is in position to receive said book block from said receiving means to an adhesive application station at which an adhesive is applied so as to be disposed between to the spine of said book block and said cover upon binding of the cover to said book block, said binding station having a clamp for clamping said cover to said book block proximate said spine so as to effect the adhesive binding
15 of said cover to said book block.

26. (original) Apparatus as set forth in Claim 25 further comprising a second text page printer for printing the text pages of a second book to be printed and bound on demand, said second text page printer being located along said workpath at a location separate from said first text page printer, said apparatus further having a second means for receiving said text pages
20 printed by said second text page printer and for accumulating said text pages to form a second book block for said second book, said cover printer printing a cover corresponding to said second book, said cover transfer conveyor conveying said second cover to said binding station after

binding of said first book is completed at said binding station, said carriage being movable to a position along said workpath for receiving said second book block from said second receiving means and said carriage thence being movable along said work path to said adhesive application station and thence to said binding station for being bound to said second cover.

5 27. (original) Apparatus as set forth in Claim 25 further comprising a trimming station, the latter having a trimming blade for trimming said bound book to a predetermined finished size.

 28. (currently amended) Apparatus as set forth in Claim[[s]] 26 further comprising a trimming station, the latter having a trimming blade for trimming said bound book to a
10 predetermined finished size.

 29. (original) Apparatus as set forth in Claim 27 wherein said carriage conveys said book block with said cover bound thereto from said binding station to said trimming station.

 30. (currently amended) Apparatus as set forth in Claim 29 further comprising a computer control system ~~for controlling operation of said apparatus, said computer control~~
15 ~~system~~ receiving information relating to said book to be printed and bound including the size of the book, the number of pages in the book, and the excess margins of the bound book that must be trimmed to form a book of said predetermined finished size, said computer control system effecting operation of said first text page printer and of said cover printer to print the text pages and the cover of a first book to be printed on demand, said computer control system effecting
20 operation of said first receiving means so as to transfer the text pages constituting said book block to said carriage, said computer control system effecting the transfer of the cover for such

first book to the binding station, and said computer control system effecting movement of the carriage to said adhesive application, binding, and trimming stations.

31. (currently amended) Apparatus as set forth in Claim 30 wherein said computer control system ~~effects~~ effecting the printing of the text pages of a second book on said second text page printer while a first book is being printed and bound, said computer control system further effecting said cover printer to print a second cover for said second book after the cover for the first book has been transferred to said binding station, and said computer control system further effecting the transfer of said second book block from said second receiving means to said carriage after the first book has been transferred to said trimming station.

32. (currently amended) Apparatus as set forth in Claim 31 wherein after the book block for said second book has been transferred to said carriage, said computer control system effecting movement of said carriage to said adhesive application station for applying adhesive so as to be disposed between said spine of said second book block and its respective cover upon binding, said computer control system further effecting movement of said carriage to said binding station for binding of the cover for said second book to said second book block, and said computer control system further effecting movement of said carriage to said trimming station for trimming of said second book to said predetermined finished dimensions.

33. (currently amended) Apparatus as set forth in Claim 32 wherein said first and second books may be of different sizes and thickness ~~from one another~~.

34. (currently amended) A method of manufacturing a plurality of ~~print~~ perfect bound books wherein each book manufactured may be, within a limited range, of a different size

and may have, within a limited range, a ~~widely-varying~~ different number of pages, each book comprising a plurality of text pages constituting a book block and a paper cover wrapped around the front, back and one edge of said book block, said one edge constituting a spine, said method comprising the steps of:

- 5 commanding a first text page printer to print the text pages constituting a book block for a first book to be printed;
 - accumulating said text pages to form said book block for said first book;
 - transferring said book block for said first book to a carriage;
 - ~~positioning said book block within said carriage in a known position;~~
- 10 moving said carriage along a work path, the latter having an adhesive application station, a binding station, and a trimming station therealong;
 - at said adhesive application station, applying an adhesive so as to be disposed between said spine of said book block and its respective cover upon binding of the book;
 - printing a cover for said first book ~~in a cover printer;~~
- 15 conveying said cover for said first book ~~from said cover printer~~ to said binding station and positioning said cover at said binding station so as to be substantially in register with said spine of said first book block when the latter is positioned at said binding station;
 - moving said carriage to said binding station and stopping said carriage at said binding station with the spine of said book block for said first book substantially in register with said
- 20 cover;
 - at said binding station, clamping said cover to said book block for said first book proximate said spine so as to adhesively bind said cover to said book block thereby forming a bound first book;

moving said bound first book from said binding station to said trimming station and transferring said bound first book to said trimming station;

determining the amount of any excess margins along one or more edges of said bound first book; and

5 effecting operation of a trimming blade at said trimming station so as to trim said excess margins from said bound first book thereby to form a first book of a predetermined finished size.

35. (currently amended) The method of Claim 34 further comprising the steps of:

commanding a second printer to print the text pages constituting a book block for a second book to be printed where the size and the number of pages of said second book may vary

10 widely from said first book within said limited range;

accumulating said text pages to form said book block for said second book;

upon transfer of said bound first book from said carriage to said trimming station, moving said carriage to a position for receiving said book block for said second book;

~~positioning said second book block within said carriage in a known position;~~

15 moving said carriage with said book block for said second book along said workpath to said adhesive application for having adhesive applied so as to be disposed between said spine and said cover of said second book upon binding;

printing a cover for said second book ~~in said cover printer;~~

conveying said cover for said second book ~~from said cover printer~~ to said binding station

20 and positioning said cover for said second book so as to be substantially in register with said spine of said book block for said second book when the latter is positioned at said binding station;

moving said carriage to said binding station and stopping said carriage at said binding station with the spine of said book block for said second book substantially in register with said cover for said second book;

clamping said cover to said book block for said second book proximate said spine so as to
5 adhesively bind said cover to said book block thereby forming a bound second book;

moving said bound second book from said binding station to said trimming station and transferring said bound second book to said trimming station;

determining the amount of any excess margins along one or more edges of said bound second book; and

10 effecting operation of ~~[[a]]~~ said trimming blade at said trimming station so as to trim said excess margins from said bound second book thereby to form a second book of a predetermined finished size.

36. (currently amended) A method of printing a book block having a plurality of text pages ~~on a printer, accumulating said text pages to form a book block, and depositing said~~
15 ~~book block in a carriage, said printer being located above the level of said carriage, said pages being received in a tray, said method~~ comprising the steps of:

a. printing said text pages on a printer;

~~[[a.]]~~ b. discharging said pages from said printer;

~~[[b.]]~~ c. accumulating said pages as they are discharged from said printer
20 on a tray in a page receiving position; and

~~[[c.]]~~ d. upon the completion of a predetermined number of pages, effecting movement of said tray from said receiving position to a discharge position in

which said pages are discharged from said tray into said carriage.

37. (currently amended) The method of Claim 36 further comprising ~~the~~ a step of holding said pages ~~[[to]]~~ in said tray after said predetermined number of pages have been accumulated on said tray and holding said pages relative to said tray as the latter is moved from its receiving to its discharge position, and then releasing said pages such that said pages are discharged by gravity into said carriage.

38. (currently amended) The method of Claim ~~[[37]]~~ 36 further comprising ~~the~~ a step of jogging said pages as they are supported on said tray thereby to substantially align said pages comprising said book block relative to one another.

39. (original) The method of Claim 38 further employing a cover printer for printing a cover for the book to be bound, said cover having a center portion, said method further comprising positioning said cover relative to the book block at a binding station such that upon binding of said cover with said book block, the spine of said book block is substantially adhered to the center portion of said cover.

40. (currently amended) A method of manufacturing a plurality of ~~print~~ perfect bound books wherein each book manufactured may ~~[[be]]~~, within a limited range, be of a different size and have a ~~widely~~ varying number of pages, each book comprising a plurality of text pages constituting a book block and a paper cover ~~of heavier stock than said text pages~~ wrapped around the front, back and one edge of said book block, said one edge constituting a spine, said method comprising the steps of:

~~commanding a first text page printer to print~~ the printing of text pages constituting a book

block for a first book to be printed;

~~accumulating said text pages to form said book block for said first book;~~

transferring said book block for said first book to a carriage;

moving said carriage along a work path, the later having an adhesive application station,

5 a binding station, and a trimming station therealong;

at said adhesive application station, applying an adhesive to said spine of said book block;

printing a cover for said first book ~~in a cover printer;~~

conveying said cover for said first book ~~from said cover printer~~ to said binding station

10 and positioning said cover at said binding station so as to be substantially in register with said spine of said first book block when the latter is positioned at said binding station;

moving said carriage to said binding station and stopping said carriage at said binding station with the spine of said book block for said first book substantially centered with respect to said cover;

15 clamping said cover to said book block for said first book proximate said spine so as to adhesively bind said cover to said book block thereby forming a bound first book;

moving said bound first book from said binding station to said trimming station and transferring said first bound book to said trimming station;

~~determining the amount of any excess margins along one or more edges of said bound~~
20 ~~book; and~~

effecting operation of a trimming blade at said trimming station so as to trim said any excess margins from said first bound book thereby to form a first book of a predetermined finished size.

41. (currently amended) The method of Claim 40 further comprising the steps of[[:]] :

commanding ~~a second printer to print~~ the printing of text pages constituting a book block for a second book to be printed where the size and the number of pages of
5 said second book may vary widely from said first book;

~~fix format accumulating said text pages to form said book block for said second book;~~

transferring said book block for said second book to said carriage;

moving said carriage along said workpath to a position for receiving said book
10 block for said second book;

moving said carriage with said book block for said second book along said workpath to said adhesive application for having adhesive applied to the spine of said book block;

printing a cover for said second book ~~in said cover printer~~;

15 conveying said cover for said second book from ~~said cover printer~~ to said binding station and positioning said cover for said second book so as to be substantially in register with said spine of said book block for said second book when the latter is positioned at said binding station;

moving said carriage to said binding station and stopping said carriage at said
20 binding station with the spine of said book block for said second book substantially centered with respect to said cover for said second book;

clamping said cover to said book block for said second book proximate said spine so as to adhesively bind said cover to said book block thereby forming a second bound

book;

moving said second bound book from said binding station to said trimming station
and transferring said second bound book to said trimming station; and

~~determining the amount of any excess margins along one or more edges of said~~
5 ~~second bound book; and~~

effecting operation of a trimming blade at said trimming station so as to trim ~~said~~
any excess margins from said second bound book thereby to form a second book of a
predetermined finished size.

42. (new) Apparatus for the printing and binding a perfect bound book, the
10 latter comprising a book block having of a plurality of text pages with one edge of said
book block constituting a spine, said book having a paper cover adhesively secured to
said spine, said apparatus comprising a text page printer, a cover printer, a cover transfer
conveyor for receiving said cover printed by said cover printer and for conveying said
cover to a binding station, a carriage movable along a workpath from a first station at
15 which said carriage is in position to receive said text pages constituting said book block
to an adhesive application station at which an adhesive is applied to the spine of said
book block, and to said binding station, the later having a clamp for clamping said cover
to said book block proximate said spine so as to effect the adhesive binding of said cover
to said book block

20 43. (new) Apparatus as set forth in Claim 1 further comprising a second text
page printer, aid second text page printer being located along said workpath at a location
separate from said first text page printer, said cover printer printing a cover

corresponding to said second book and said cover conveyor conveying said second cover to said binding station after binding of said first book is completed at said binding station, said carriage being movable to a position along said workpath for receiving said text pages from said second printer for forming a book block for a second book and thence
5 being movable along said work path to said adhesive application station for having said adhesive applied to said spine of said second book block and thence to said binding station for being bound to said second cover.